

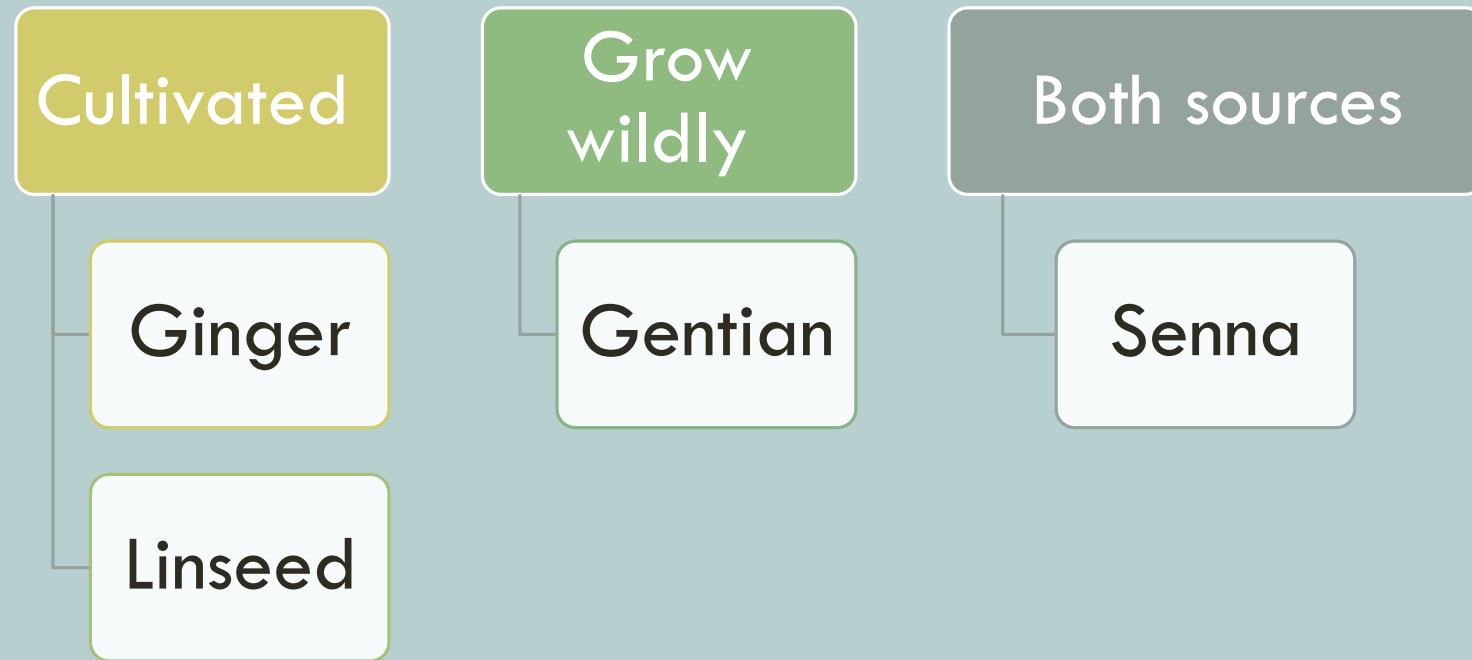
PHARMACOGNOSY

المحاضرة الثانية:
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DR/ WEDAD
MANSOUR



- Cultivation of medicinal plants;



- **Indigenous**; *plant growing in their native land*
- **Naturalized**; plant growing in foreign land or in a locality other than their nature

Disadvantage of collection drug from wild sources

1-Spare distribution

Wild plant are found over unlimited areas

2-difficulty in collection and transport

Wild plant are grow in deserts and forests and that cause high cost of collection

3-Ruthless collection

Continuous collection of the drugs from wild sources leads to their deficiency

4-Adulteration

The collection is carried out by ignorant people
This leads to collection of the plants with uncontrolled conditions

5-Deficient supply to the market

Wild plants cannot meet the market demand

- The cultivation of medicinal plants is very important for the massive manufacture of drug .
- For successful cultivation ,it is necessary to study the optimal conditions of moisture, soil and climate under which the plant flourishes

Advantages of cultivation of medicinal plants:

1-concentration of a large number of plant in a small area

2-control of the purity of the product

3-improvement of drug by controlling certain factors in cultivation

4-treatment of seeds before cultivation
[to ensure germination as soaking hyoscyamoy's seeds in sulphuric acid fastens germination

5-use of fertilizers or manures

Following

6-controlling insects infestation

7-cultivation assures a regular and constant supply

8-cultivation of drug in proximity to the factory

9- cultivation helps study of the constituents of plants grown under controlled conditions

Disadvantages of cultivation

1 - the high cost of production

Except when carried on large scale

2-some medicinal plant require imitation to particular habitat ex:

Cannabis : requires topical climate for narcotic resin production

Cinchona: requires damp hot weather

Aloes: requires a heavy rain fall

3-cultivation may modify the
- morphological characters
- anatomical characters
Of the wild plant to so that the identification of the plant become difficult

Collection of
medicinal plant
from



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graph LR; A[Collection of medicinal plant from] --- B[1 - collected from wild or cultivated plant]; A --- C[2-known the active constituents of medicinal plants are affected by many factors and may vary during the course of plant growth]; A --- D[3-proper time of collection is very important to obtain of a good quality];
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